









Topics

- What is the Texas Water Development Board (TWDB)?
- What financing tools do we offer?
- How can the TWDB help you?































TWDB History is Texas History

1822 ...and-sometimes they are in short supposed in Settlers in West Texas return to the east after 1884

 Central Texas colonists led by Stephen F. Austin lose their initial food crops to drought

crops fail

1956

 Drought of Record: severe statewide drought

1957

 Texas Water Development Board created; statewide water planning begins

2011

Severe statewide drought returns







TWDB History is Texas History

1869

Bastrop evacuates as flood waters reach 46 feet

1925

 Flooding destroys 13 bridges and drowns 51 people in San Antonio

1935

 Downtown Houston inundated by flooding of the Buffalo Bayou

1949

 Fort Worth flooded by the Trinity River, causing \$10M in damage and killing 10 people

1952

Flooding in Central Texas kills 5 and destroys 17 homes

2015

 Blanco River rises 36ft in a few hours, washing away entire residential blocks in Wimberley







A Toolbox for Public Water Utilities

The legislature has entrusted the TWDB with a set of financing Each tool is unique, and some are designed for special purposes. tools to help public utilities achieve their infrastructure goals.





Projects serving **Right Prizitly**s **Distressed** Areas projects for future demand







A Toolbox for Public Water Utilities



Agricultural Water Conservation Loans/Grants (AG)



Clean Water State Revolving Fund (CWSRF)



Drinking Water State Revolving Fund (DWSRF)



Economically Distressed Areas Program (EDAP)



Rural Water Assistance Fund (RWAF)



State Participation Program (SP)



State Water Implementation Fund for Texas (SWIFT)



Texas Water Development Fund (DFund)





How Can These Tools Work for You?

AAA Bond Rating

Funding to accommodate projects of all sizes

Some projects qualify for combined funding through multiple programs

All project phases are eligible for funding





Eligible Applicants

	SWIFT	CWSRF	DWSRF	EDAP	RWAF	SP	DFund
Political subdivisions	6	6	6	6	6	6	6
Non-profit water supply corporations	6	6	6	6	6	6	6
Investor-owned utilities			6				







Eligible Projects

	SWIFT	CWSRF	DWSRF	EDAP	RWAF	SP	DFund
Water Supply – Current Need	6		6	6	6	6	6
Water Supply – Future Need	6				6	6	6
Water Treatment	6		6	6	6	6	6
Water Transmission & Distribution	6			6	6		6
Potable Reuse	6						
Wastewater Collection							
Wastewater Treatment		6		6	6	6	6
Nonpoint Source Pollution Control		6					
Flood Control/ Stormwater Management		6	6				6







State Revolving Fund (SRF) Programs

- Partially funded by the U.S. Environmental Protection Agency (EPA)
- Subsidized financing
- Partial principal forgiveness available for certain project types
- Multi-year commitment option

Drinking Water State Revolving Fund (DWSRF)



Offers financing 125 basis points below the applicant's market interest rate



Repayment terms up to 30 years



Partial principal forgiveness available for Disadvantaged Communities, Very Small Systems, Urgent Need projects, and projects with green components





Sample DWSRF Project

Stamford

Water System Improvements

- 1950s-era treatment plant needs improvements
- Replacing 15 miles of 18" pipe to address water loss
- Replacement of WWII-era elevated storage tank
- Disadvantaged: \$9,282,728 principal forgiveness
- Green project: \$952,980 principal forgiveness
- \$19,765,708 total DWSRF loan
- Cost savings: \$18,807,932







Clean Water State Revolving Fund (CWSRF)



Offers financing up to 155 basis points below the applicant's market interest rate



Repayment terms up to 30 years



Partial principal forgiveness available for Disadvantaged Communities and projects with green components





Sample CWSRF Project

Houston

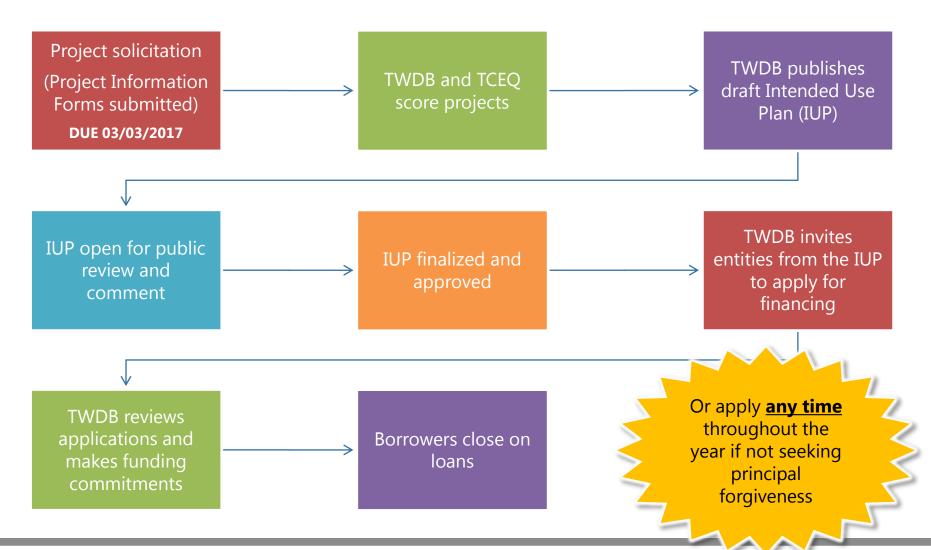
Collection System Rehabilitation

- Ongoing effort to renew at least 600,000 linear feet of collection system each year
- Pipe sizes range from 6" to 72"
- Project will reduce sanitary sewer overflows
- Inflow and infiltration are addressed, resulting in optimized performance
- \$65,750,000 total CWSRF loan
- Cost savings: \$19,499,242



Houston

SRF Annual Funding Cycle











Primary SRF Program Requirements

- Disadvantaged Business Enterprise (DBE) procurement
- Environmental review
- Davis-Bacon prevailing wage rates
- American Iron & Steel

Technical assistance available!











State-Funded Programs

- Funded with bond proceeds (AAA bond rating)
- Loans based on TWDB's cost of funds
- Grants available (EDAP)
- Subsidization and deferral available (SWIFT)









State Water Implementation

Fund for Texas

Eligible Projects

- Recommended water management strategies in the state water plan
- Includes a wide range of water supply and conservation projects

Financing Options

- Low-interest loans
- Deferred loans
- **Board Participation**
- Multi-year commitments









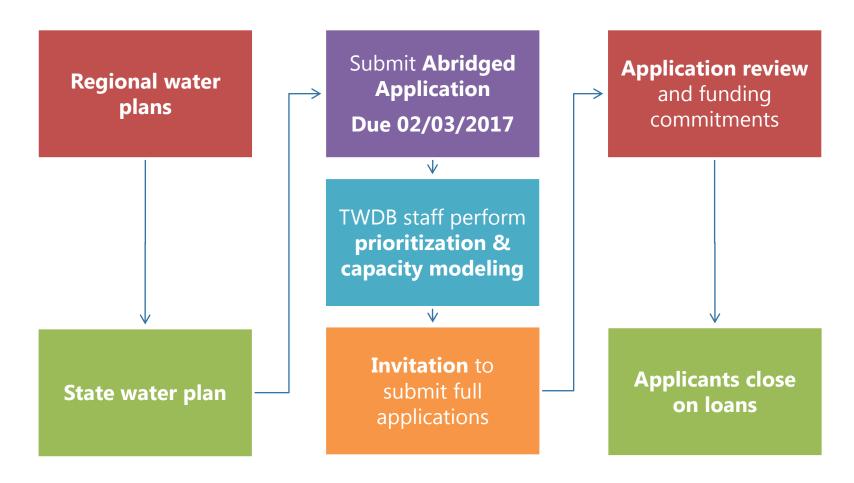
New for 2017

 Low-interest loan interest rate subsidies specified for taxable financing and rural entities

		Subsidized			
	Low-Interest Loans		Rural/Agriculture		
Term	Tax-Exempt	Taxable	Tax-Exempt	Taxable	
20 Years	35%	28%	50%	40%	
21-25 Years	25%	20%	33.5%	27%	
26-30 Years	20%	16%	26.15%	21.5%	

 Rural: communities with population of 10,000 or fewer, not located within the extraterritorial jurisdiction of any city with population of 500,000 or greater.

SWIFT Funding Cycle











Sample SWIFT Project

Aust

Austin

Direct Reuse

- Supply needs identified in regional planning will be met by increased conservation and expanded use of reclaimed water
- Rehab and expansion of filtration systems, new storage tank and pump stations, and approximately 74,000 feet of transmission mains
- \$86,900,000 SWIFT multi-year commitment
- Cost savings: \$2,035,348! (on \$20 million closed in 2016)





APPLICATION FOR FINANCIAL ASSISTANCE

FOR WATER AND WASTEWATER INFRASTRUCTURE PROJECTS

This application is comprehensically term, as pany to sare, as stall eapplical is forwater and waste vated in last as a fit of the log late of its Till at Worlder or on Board (TWDB) programs. The log late application is expected to percent the logic process for both the applicant and its Board and its last continued by process of including vate but by constitutions are including vate but by constitutions are indexed, electronic copy, via electronic storage media such as CD or flash drive using MS Word, Excel and/or Adobe Acrobat.	
Please submit your application to: Texas Water Development Board	
Water Supply and Infrastructure-Regional Water Planning and Development P O Box 13231 1700 N. Congress Avenue, 5th Floor Austin, Texas 78711-3231 (78701 for courier deliveries)	
A complete application consists of all of the applicable information and forms requested in this document. When preparing this application please review the Application and all Guidance and Forms, listed at the end.	
For more information, please contact your Regional Project Implementation Team at:	

http://www.twdb.texas.gov/financial/programs/swift/regional_project_teams.asp

TWDB Use Only
Name of Applicant:
Date application received:
Date administratively complete:

SWIFT is the only state-funded program with an application deadline. Applications for the other state programs are accepted at any time.



Thankyou.

EDAP assists projects in areas where:

- Income is not greater than 75% of statewide median
- Infrastructure is substandard or doesn't exist
- Model Subdivision Rules (MSRs) are in place to prevent further substandard development







EDAP Offers Grants

- Grant/loan ratio depends on project phase and affordability calculation
- Nuisance determination required for
 - > 50% grant
- Popular program...current bonding capacity has been met

Sample EDAP Project

East Aldine Management District

Sherwood and Benton Place Water and Sewer

- First-time water & wastewater service to two areas
- Documented > 50% failure rate on private septic systems
- Small lot size means shallow water wells are less than 50 ft. from septic drainage
- DSHS Nuisance Determination
- \$10,912,331 total EDAP assistance
- \$10,335,331 grant!









Ag Conservation Loans

- Projects that improve irrigation efficiency
- Purchase and installation of devices to measure use of irrigation water
- Technical assistance programs
- Research, demonstration, technology transfer, or educational programs
- ...and more





Sample Ag Conservation Loan Project

Panhandle Groundwater **Conservation District**

- TWDB financing allows the District to make loans to individual farmers for more efficient irrigation systems
- \$2,000,000 loan
- Cost savings: \$206,475







Ag Conservation Grants



Accepting applications now! (Due Feb. 15)

- Capacity: up to \$200,000 per project
- Water use monitoring equipment, demonstration and technology transfer, irrigation efficiency studies
- Cameron.Turner@twdb.texas.gov







Texas Water

Flood Protection Grant Programs



Flood Protection Planning

 Grants to conduct feasibility studies for structural and nonstructural solutions to flood hazards in an entire watershed



Flood Mitigation Assistance

 Federal funding for cost-effective measures to reduce or eliminate long-term flooding risk



Severe Repetitive Loss

• Federal funding to assist implementation of mitigation measures to reduce or eliminate long-term risk





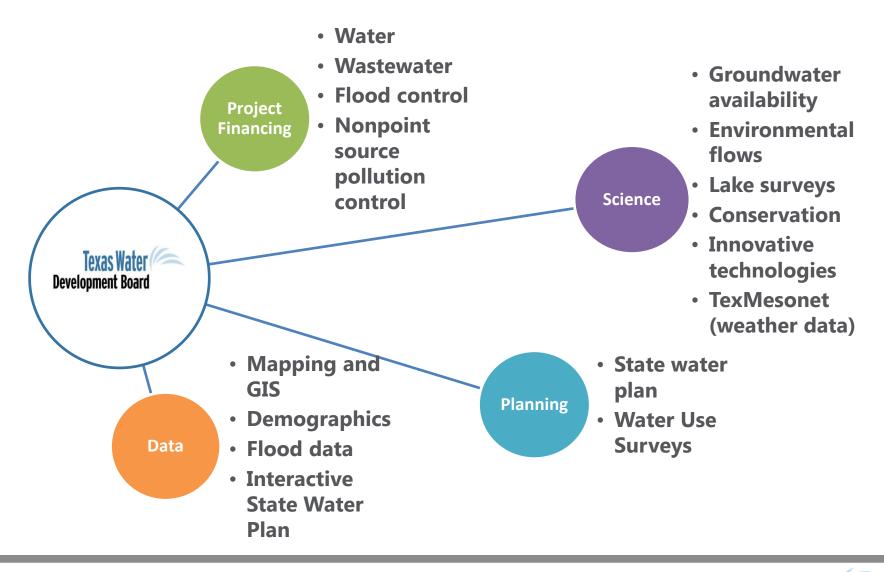
Primary State Program Requirements

- Water conservation and drought contingency plans
- Environmental review
- U.S. Iron & Steel (except SWIFT)
- Water loss threshold requirements





Other TWDB Resources







Region A

Region F

Region O

Region B

Region G

Region CRegion D

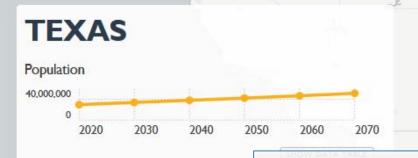
Region K Region H

Region



All of Texas

GO



Interactive State Water Plan

texasstatewaterplan.org

Region LRegion P Region N Region M @ OpenStreetMap contributors, @

Development of the state water plan is central to the mission of the Texas Water Development Board. Based on 16 regional water plans, the plan addresses the needs of all water user groups in the state - municipal, irrigation, manufacturing, livestock, mining, and steam-electric power - during a repeat of the drought of record that the state suffered in the 1950s. The regional and state water plans consider a 50-year planning horizon: 2020 through 2070.

This website lets water users statewide take an up-close look at data in the 2017 State Water Plan and how water needs change over time by showing:

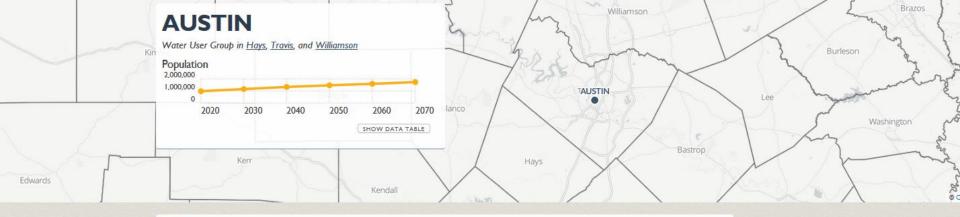
- o projected water demands,
- o existing water supplies,
- o the relative severity and projected water needs (potential shortages),
- o the water management strategies recommended to address potential shortages, and
- o recommended capital projects and their sponsors.

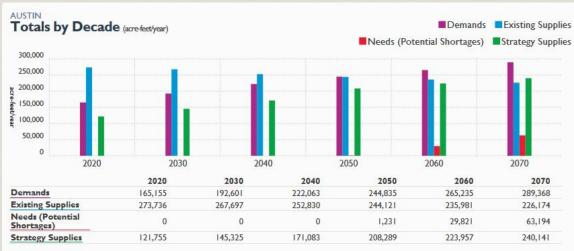
www.twdb.texas.gov

Click anywhere above to visit texasstatewaterplan.org









Strategy ▲	2020	2030	2040	2050	2060	2070
CITY OF AUSTIN - AQUIFER STORAGE AND RECOVERY	10,000	25,000	25,000	50,000	50,000	50,000
CITY OF AUSTIN - CAPTURE LOCAL INFLOWS TO LADY BIRD LAKE	1,000	1,000	1,000	1,000	1,000	1,000
CITY OF AUSTIN - CONSERVATION	22,969	24,559	28,317	31,220	33,822	36,899
CITY OF AUSTIN - DIRECT REUSE	5,429	10,429	20,429	22,929	25,429	27,929
CITY OF AUSTIN - INDIRECT POTABLE REUSE THROUGH LADY BIRD LAKE	20,000	20,000	20,000	20,000	20,000	20,000















How to Get Started

CONTACT US!

Team 1 Lee Huntoon Panhandle/West (512) 463-6021 Regions: A/O/E/F

Team 2 Caaren Brazos Skrobarczyk Regions: G/B (512) 475-1128

Team 3 **Luis Farias** Northeast (512) 475-4816 Regions: C/D

Team 4 **Nancy Richards** East (512) 463-0250

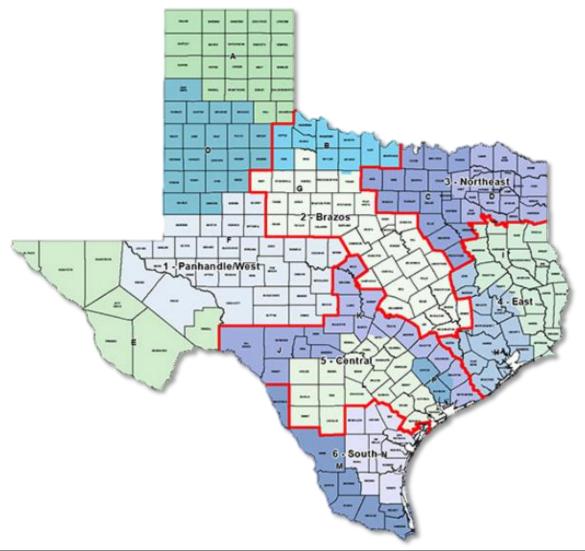
Regions: H/I

Team 5 **Dain Larsen** Central (512) 463-1618

Regions: J/K/L/P

Team 6 Mireya Loewe South (512) 475-0590

Regions: M/N









Pre-Application Meetings









Thank You!

Tom Entsminger

TWDB State Programs Coordinator (512) 936-0802

Tom.Entsminger@twdb.texas.gov

